

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/002,741	TATENO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Inder P. Mehra	2617	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment dated 5/17/2007.
2. ☒ The allowed claim(s) is/are 1,5-7,9,2-4,8,12, and 10-11 (Renumbered as 1-12 respectively).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application   |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>7/27/07</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                        |
|  | 9. <input type="checkbox"/> Other _____.  |

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### **DETAILED ACTION**

1. This office action is in response to amendment dated: 5/17/07. Based on this amendment, claims 1-12 are pending.

#### ***Allowable Subject Matter***

2. Claims 1-12 are allowed.

### **REASONS FOR ALLOWANCE**

3. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose, teach or suggest directly, or indirectly the following limitations in combinations with other limitations of the claims, as follows:

**As recited by claim 1,**

- an extracting unit to extract a clock from an output signal of the changeover unit,  
a PLL circuit to receive the clock from the extracting unit and to output an output for extracted clock,  
a clock changing unit to receive the output signal with the output clock of the PLL circuit, and  
a framing unit to frame output data of the clock changing unit with the output clock.

**As recited by claim 2,**

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- two extracting units to extract data and a clock respectively of two input signals which are mutually asynchronous ha phase,  
a first and a second reference clock changing unit to change the respective data with a reference clock inputted externally,  
a first changeover unit to change over from one to another of data respectively outputted from the first and the second reference clock changing unit,  
a second changeover unit to change over from one to another of clocks extracted by the extracting units,  
a PLL circuit to receive the clock from the second changeover unit and to output an outout clock, and  
a clock changing unit to change output data of the first changeover unit from a clock before the changeover to an output clock of the PLL circuit.

**As recited by claim 2,**

- each redundant changeover apparatus comprises a changeover unit to change over from one to another of two input signals which are mutually asynchronous in phase, an extracting unit to extract a clock from an output signal of the changeover unit, a PLL circuit to receive the clock from the extracting unit and to output an output clock, a clock changing unit to receive the output signal with the output clock of the PLL circuit, and a framing unit to frame output data of the clock changing unit with the output clock, and generates outputs of the clock changing unit of the working system and the protection system.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Prior Art of Record***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

**Nishihara** (US Patent No. 6,512,616) discloses "An optical packet switch uses electric circuits to implement input and output sections of an optical switch that performs packet switching.

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**JEAN GELIN**  
**PRIMARY EXAMINER**



*Inder Pal Mehra 7/27/07*  
Inder P Mehra  
Examiner  
Art Unit 2617